

# PATENT ABSTRACTS OF JAPAN

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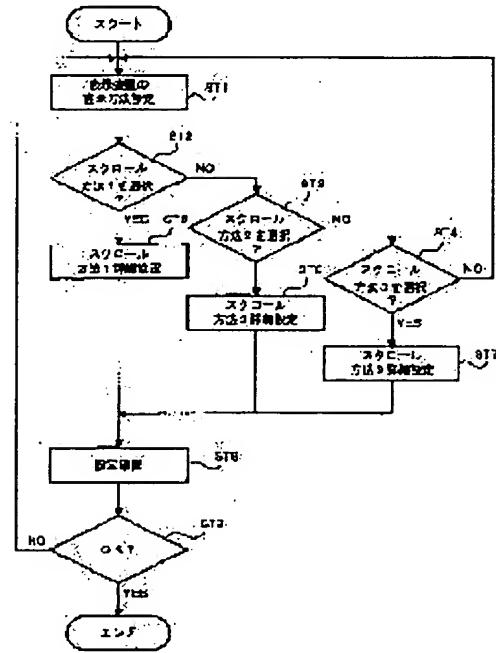
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## (54) PORTABLE TERMINAL DEVICE AND ITS SCROLLING METHOD

(57) Abstract:

**PROBLEM TO BE SOLVED:** To obtain a portable terminal device which is improved in usability by providing plural scroll selecting means when the mode attribute of a paragraph element is selected in no-lap mode by a portable terminal device adaptive to a wireless application protocol (WAP), and its scrolling method.

**SOLUTION:** When the no-lap mode is selected with the mode attribute of the paragraph element, plural scroll selecting means are provided and the portable terminal device which is capable of scrolling corresponding to the selecting means and its scrolling method are provided.



## LEGAL STATUS

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3. In the drawings, any words are not translated.

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CLAIMS

## [Claim(s)]

[Claim 1] The portable remote terminal equipment characterized by to establish a scrolling means direct scrolling for this display means when a line with this long paragraph element is not settled in the display width of face of the above-mentioned display means, in case it is portable remote terminal equipment which can be displayed on a display means and a no lap is specified as the mode attribute of the above-mentioned paragraph element in a paragraph element by the description language corresponding to a wireless application protocol.

[Claim 2] The scrolling approach of the portable remote terminal equipment characterized by to perform scrolling which directs scrolling when a line with this long paragraph element is not settled in the display width of face of the above-mentioned display means, in case it is the scrolling approach of the portable remote terminal equipment which can be displayed on a display means and a no lap is specified as the mode attribute of the above-mentioned paragraph element in a paragraph element by the description language corresponding to a wireless application protocol.

[Claim 3] Said scrolling approach is the scrolling approach of the portable remote terminal equipment according to claim 2 characterized by accomplishing so that a scrolling indication of every one character of said paragraph element may be automatically given horizontally by setting up the speed of scrolling.

[Claim 4] Said scrolling approach is the scrolling approach of the portable remote terminal equipment according to claim 1 which is setting up the number of alphabetic characters of said paragraph element scrolled, and is characterized by accomplishing so that this paragraph element may be horizontally indicated by scrolling by actuation of an actuation means corresponding to this number of alphabetic characters.

[Claim 5] The scrolling approach of portable remote terminal equipment of display width of face being the scrolling approach of the portable remote terminal equipment on which the character string of the line count which is not settled in the screen of a small display means at this display width of face displays and which accomplished like, and carrying out changing from the step which sets up the number of alphabetic characters or the speed scrolled of the above-mentioned character string by which scrolling is carried out, and the step which scroll and display so that sequential overwrite may carry out on the above-mentioned character string at the number of alphabetic characters or the speed which carried out [ above-mentioned ] a setup as the description.

[Claim 6] The scrolling approach of the portable remote terminal equipment according to claim 5 characterized by accomplishing so that said said number of alphabetic characters scrolled and overwritten and the color of said character string may be changed.

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[Translation done.]